Magnet drive gear pumps
PG300 series

There are applications where the liquids involved are very difficult to handle and working solutions are hard to find and require a great financial investment.
The PG300 series is Fluid-o-Tech®'s reply to such requirements. Made to give the same high level of performance as the MG300 series, the PG300 series pumps are built in a special grade of PPS to offer the greatest versatility and quality of material while allowing for exceptional mechanical characteristics.
The gears are available in Peek and PTFE.
The elastomers are available in a comprehensive range of materials to allow usage in the widest variety of applications.
The PG300 series offers mag drive coupling with ferrite or rare earths magnets.

Available upon request:
- Built-in relief valve
- Rare earths driven magnet



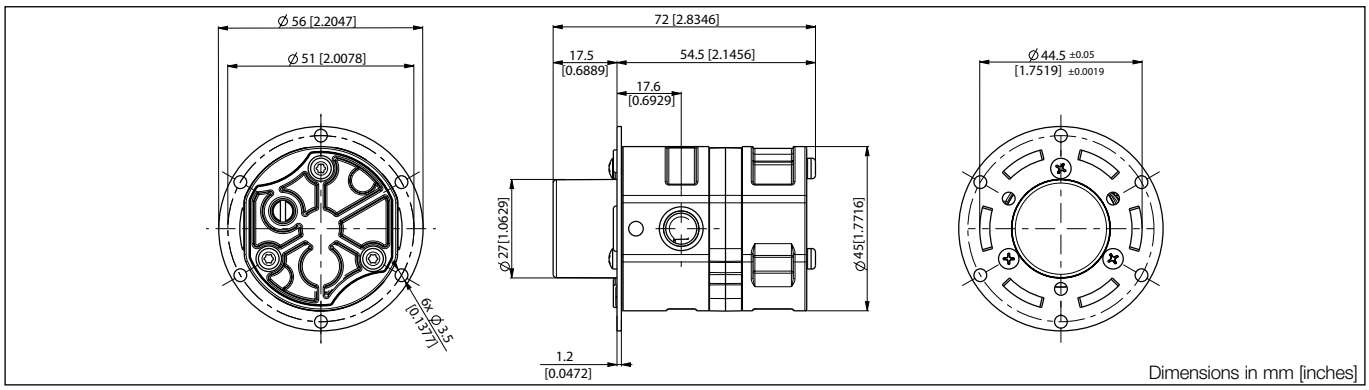
MAIN APPLICATIONS

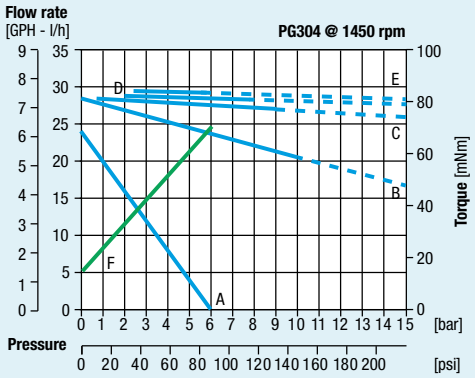
- Medical and surgical equipment
- Hemodialysis apparatus
- Laser apparatus
- Lubrication
- Ink-Jet printing systems
- Cooling systems
- Laboratory instrumentation
- Water treatment
- Sampling
- Food processing equipment
- Sanitization

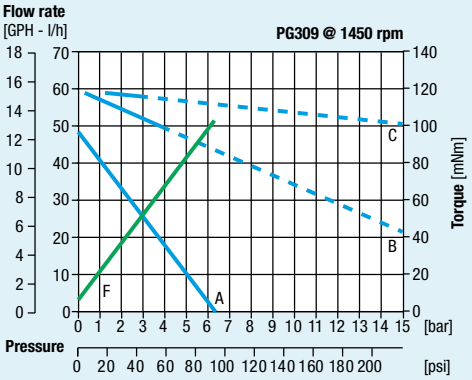
TECHNICAL INFORMATION

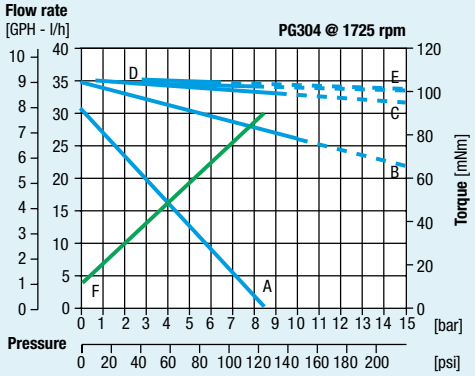
Pump housing material	PPS	Max static pressure	20 bar/290 psi
Gears and bushing materials	Peek™/PTFE™	Temperature range	-45 to 60 °C/-49 to 140 F
Ports	1/8" GAS or NPT	Max vacuum	724 mmHg/28.5 inHg
Pump weight (PG317)	230 g (0.7 lbs)	Wet lift with water*	~ 8m/26.2 ft
Speed limit	5000 rpm	Max instantaneous gradient of fluid	45°C/113°F

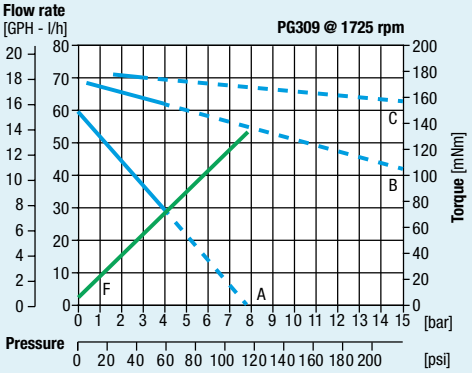
* Priming ability varies with operating conditions and fluid characteristics

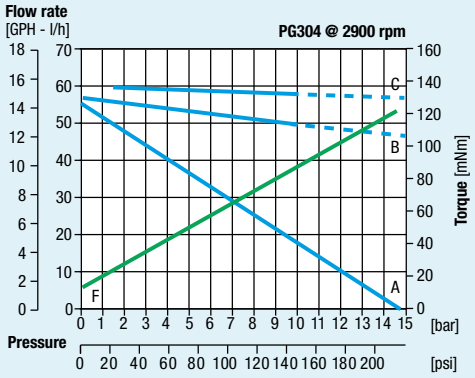


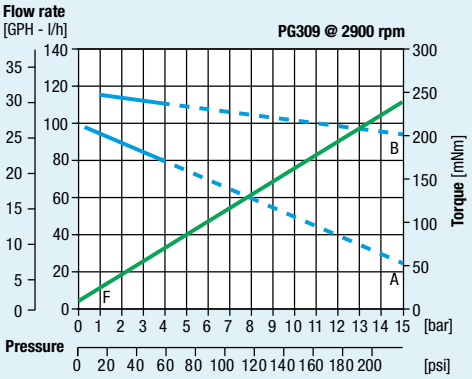


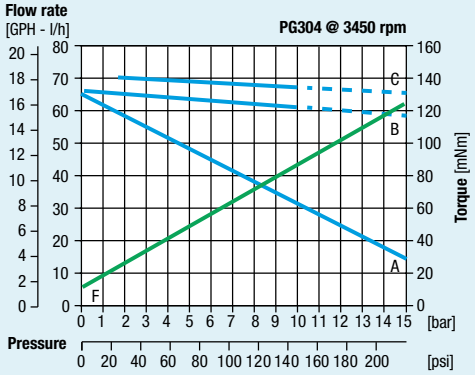


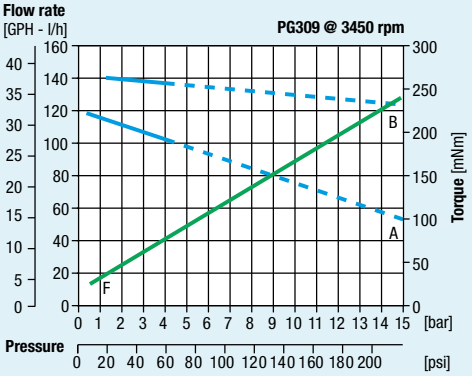








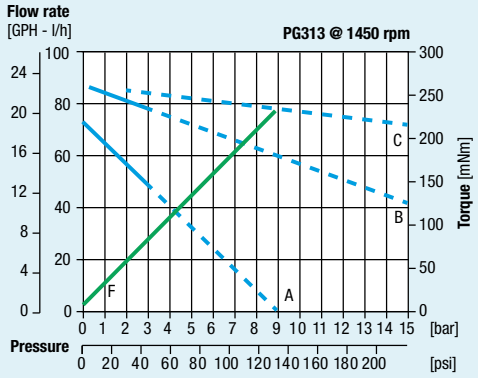


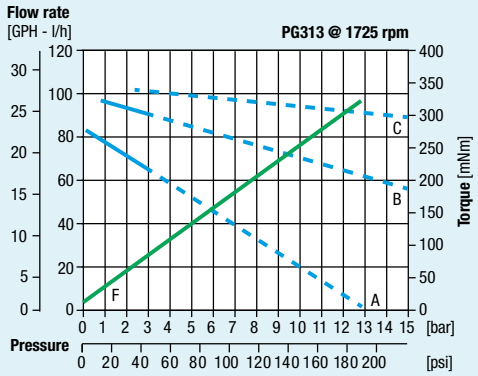


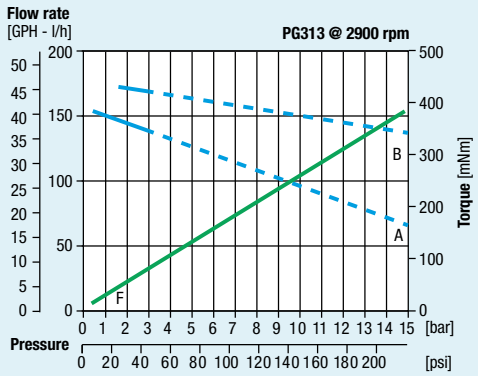
Operating range with ferrite driving magnet
Operating range with rare earth driving magnet
Torque

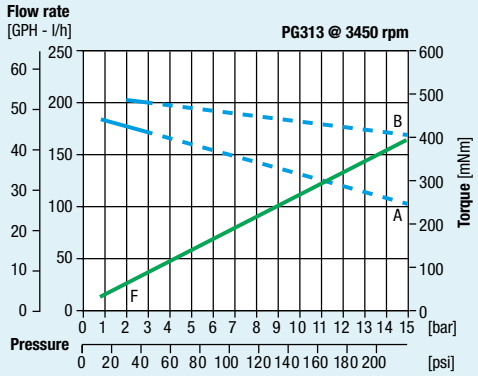
A = 1 cP **B** = 20 cP **C** = 75 cP **D** = 180 cP **E** = 210 cP **F** = 1 cP Torque

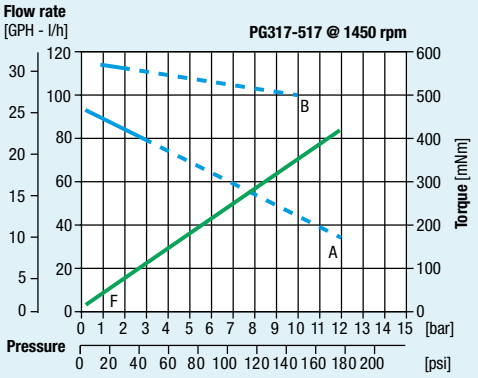
Note: Characteristics with water at 20 °C (68 F) and without relief valve. Fluids different from water must be validated by the Customer. Temperature requirements different from ambient temperature must be mentioned on the order. Different materials are available upon request. Use a filter before the pump inlet no larger than 10 micron

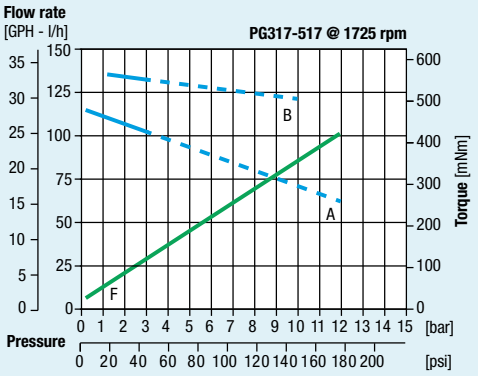


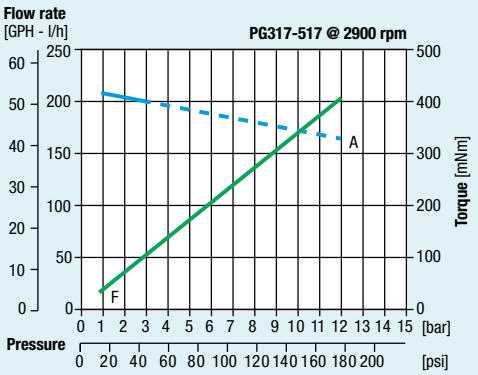


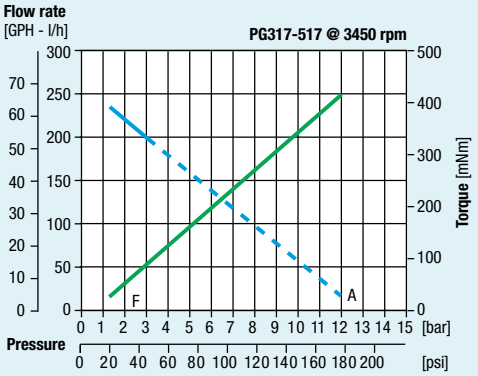












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MODEL NUMBER MATRIX

Position	1	2	3	4	5	6	7	8	Customization
Code	**PG**	**3**	**09**	**R**	**D**	**0**	**P**	**E**	**00000**

POS	DESCRIPTION	CODE	POS	DESCRIPTION	CODE
1	Driven magnet	**PG** = ferrite **PS** = rare earths	4	Housing material	**R** = PPS
2	Pump series	**3** = with o-ring	5	Type of connections	**D** = 1/8" NPT **G** = 1/8" GAS
3	Gear width in mm (Nominal displacement)	**04** = 4 mm (0.3 ml/rev)	6	Relief valve	**0** = without **1** = with
		09 = 9 mm (0.6 ml/rev)	7	Gear material	**P** = Peek™ **T** = PTFE™
		13 = 13 mm (0.9 ml/rev)	8	Static seal material	**E** = EPDM **N** = NBR
		17 = 17 mm (1.2 ml/rev)			**V** = Viton® **S** = Silicon

Fluid-o-Tech reserves the right to alter the specifications indicated in this catalogue at any time and without prior notice.

Fluid-o-Tech srl
Via Leonardo da Vinci, 40
20094 Corsico, Milano, Italy
Tel. +39 02 9995 01
Fax +39 02 9995 0999
info@fluidotech.it

Fluid-o-Tech Int'l Inc.
161 Atwater St.,
06479 Plantsville CT (USA)
Tel. +1 (860) 276 9270
Fax +1 (860) 620 0193
info@fluid-o-tech.com

Fluid-o-Tech Int'l Inc. Japan
2nd Floor, 4-3-8, Espoir Todoroki,
Todoroki, Setagaya, Tokyo 158-0082
Tel. +81 (0) (3) 6432 1812
Fax +81 (0) (3) 6432 1813
erkkato@fluidotech.jp

Fluid-o-Tech Asia (Shanghai) Co., Ltd.
2/F, Factory building 6 (1), No. 258, Zhijiang Road,
Fengxian District, Shanghai City, Z.P.: 201499 China
Tel. +86 (021) 67100 838
Fax +86 (021) 67100 605
info@fluidotech-asia.com